

[illegible][illegible]


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/note="This clone is in pONI 51"
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1. 291
/note="mutative 1 fold transfer"

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| BASE COUNT | 0 7 3 | 0 5 0 | 0 5 3 | 0 2 1 |
| 0 0 0 0 0 | | | | |

[illegible]

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|------------|---|--------|--------|-----------------|
| LOCUS | ZINTEB4 | 535 bp | linear | PLN 07 FEB-1999 |
| DEFINITION | Zinba3 elegans cDNA for TED4, complete cds | | | |
| ACCSSION | D36002 | | | |
| ORIGIN | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 | | | |

[illegible]

BIOLOGICAL INSTITUTE
Fukuroi, 1-1-1 Gakko
Tetsuka, Chikuzono City
Akashi, 654-85
Sendai, Miyagi 980-77

Japan
Phone: 011-222-1800 X3484
Fax: 011-263 9206.
Location/Qualifiers
1. 535
source

| | polyA-site | 535 | | |
|--------|------------|-----|-----|-----|
| base | 110 | 113 | 115 | 170 |
| cutt | 1 | 2 | 3 | |
| origin | | | | |

| Seq | Match | Similarity | Score | RP | MB | Length | 535 |
|-----|----------|------------|--------------|------|------------|--------|--------|
| 1 | Residual | 50.0% | 17.1 | 1.15 | | | |
| 2 | Matches | 154 | Conservative | 0 | Mismatches | 107 | Indels |
| 3 | | | | | | | Gaps |
| 4 | | | | | | | 0 |
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[illegible]

| RESULT 8 | AY091170 | 210 bp | Match | Ident |
|------------|--|-------------|-------|-------|
| LOCUS | AY091170 | 210 bp | 100% | 100% |
| DEFINITION | Arabisopsis thaliana Full-length cDNA for protein (A+138770) | | | |
| ACCESSION | AY091170 | | | |
| VERSION | AY091170.1 | 31,205,5674 | | |
| KEYWORDS | Full cDNA | | | |
| SOURCE | Arabisopsis thaliana | | | |
| ORGANISM | Arabisopsis thaliana | | | |

REFERENCE

AUTHORS

1 (pages 1 to 316)

Yamashita, F., Balth, J., Tan, M. M., Chang, C. H., Chang, E., Dale, J. M., Deng, J. M., Goldsmith, A. B., Lee, M. M., Choudhary, C. S., Gao, H. L., Tang, C., Tollman, M., Wu, H. C., Yamada, Y., Yeo, J., Paoletti, C., Calhoun, E., Chai, H., Clark, E., Hayashi, Y., Ishida, G., Jones, T., Kameya, A., Kallin, Nourang, G., Kawai, T., Kim, C., Lam, B., Liu, J., Meyer, M. A., Nishida, M., Nakamura, M., Nguyen, M., Fahn, C. J. Lin, J., Miyazaki, M., Sekim, M., Shim, P., Southwick, A., Suda, T., Tachibana, M., Sekim, M., Shim, P., Southwick, A., Shimokata, K., Tavis, H. W., Eckel, J. A., and Zeng, A.

| JOURNAL | Unpublished | 1 | 2 |
|---|-------------|---|---|
| 2 (bases 1 to 316) | | | |
| Yamada, K., Yamai, J., Ichii, Y. M., Shiga, C. H., Chang, E., Dale, J. M., Teng, J. M., Goodsmith, A. C., Lee, Y. C., Chikara, S., Oach, H. L., Yang, C. C., Tolmou, M., Wu, H. C., Yamashita, Y., To, S., Bowser, L. | | | |

Mon Jan 13 09:24:51 2003

us-09-923-844b-3.rng

Page 14

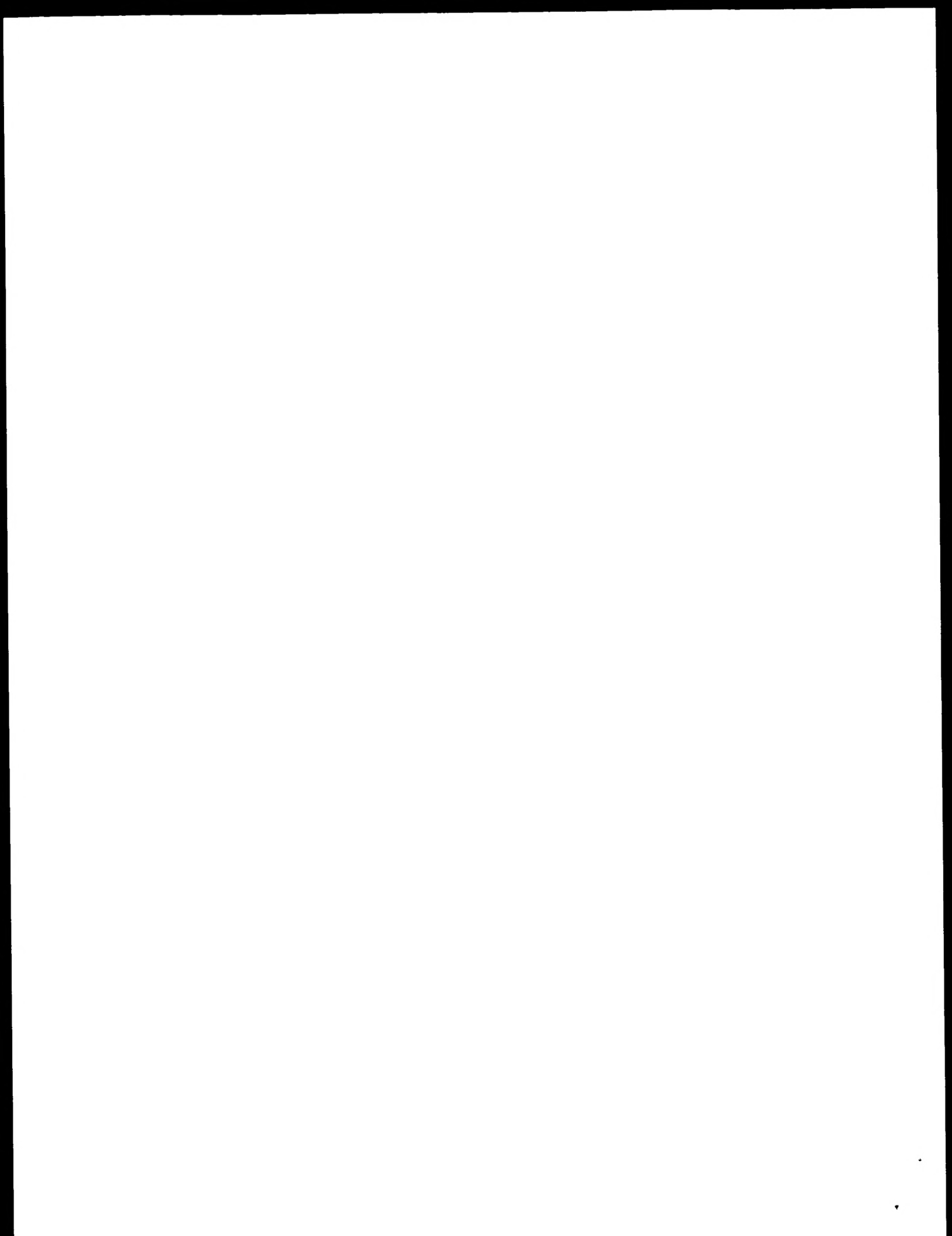
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[illegible]



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Best Local Optimality 1048,
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Consecutive Draws 11

RESULT 7
US-09-878-574-3403
; Sequence 3403, Application no/seq78574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Eviatt, Joseph R.
; APPLICANT: La Rosa, Michael D.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Plants
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 09-0174401B


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US-09-878-574-3304
/ Sequence 3304, Application US/09878574
/ Patent No. US20020110549A1
/ GENERAL INFORMATION:
/ APPLICANT: BYIUT, Joseph R.
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Thompson, Michael D.
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants
/ FILE REFERENCE: 38-21(15401)B
/ CURRENT APPLICATION NUMBER: US/09/878,574
/ CURRENT FILING DATE: 2001-12-21
/ PRIOR APPLICATION NUMBER: 09/333,535
/ PRIOR FILING DATE: 1999-06-14
/ NUMBER OF SEQ ID NOS: 15175
/ SEQ ID NO 3304
/ LENGTH: 385
/ TYPE: DNA
/ ORGANISM: Glycine max
/ OTHER INFORMATION: Clone ID: LB3308 316 C1 B1 C11
US-09-878-574-3304

Query March 12, 2004, Score 69.6, DB 10, Length 385;
Seq. Local Similarity 49.58, Pct. Id. 6.68-09,
Matches 156, Conservative 0, Mismatches 169, Indels 0, Gaps 0.

CY 73 GTTATGAGCGACATGGTGTATTATGGCCAAATCCGCGAGAGTCATGCGGACAGCTG 129
DE 33 GTGTTTAGACACTTCTCTCTGCGGAGGTGGGCGCATGCTGATGTTTATATGTC 98
CY 130 AACTACATGAGAGTCGAGCGCAATGCTGCTGATGATATATATATATATATATATAT 189
DB 99 ACCCCAAACAGAGTTGACTTCGCTGCTTCGCAACAGATATATATATATATATATAT 159
CY 190 TCATGTCGCACTAAGTAGAGGAGTAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 149
DB 159 GCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 119
CY 250 AGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 169
DB 217 AGTTGTGAGATATATATATATATATATATATATATATATATATATATATATATAT 178
CY 310 AGATATATATATATATATATATATATATATATATATATATATATATATATATATAT 169
DB 279 GCGTTTGTGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 119
CY 370 AATATATGTGAAATA 384
DB 339 ATATATAGATAAATA 353

RESULT 11
US-09-878-574-3304
/ Sequence 3304, Application US/09878574
/ Patent No. US20020110549A1
/ GENERAL INFORMATION:
/ APPLICANT: BYIUT, Joseph R.
/ APPLICANT: La Rosa, Thomas J.
/ APPLICANT: Thompson, Michael D.
/ TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
/ TITLE OF INVENTION: Plants
/ FILE REFERENCE: 38-21(15401)B
/ CURRENT APPLICATION NUMBER: US/09/878,574
/ CURRENT FILING DATE: 2001-12-21
/ PRIOR APPLICATION NUMBER: 09/333,535
/ PRIOR FILING DATE: 1999-06-14
/ NUMBER OF SEQ ID NOS: 15175
/ SEQ ID NO 3304
/ LENGTH: 385
/ TYPE: DNA
/ ORGANISM: Glycine max
/ OTHER INFORMATION: Clone ID: LB3308 316 C1 B1 C12
US-09-878-574-3304

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Query Match. 10.9%, Score 60.6, DP 10, Length 384;
Best Local Similarity 42.0%, Field NO. 6.6E-09;
Matches 156; Conservative 0; Mismatches 159; Indels 0; Gaps 0;

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DB 10 TTTTATGATGATTTTATTTTGGGCGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 159
CY 140 AATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 140
DB 90 ACCGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 140
QY 190 TCATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 190
DB 150 GTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 249
QY 250 AGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
DB 210 AGTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 249
QY 310 AGTATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 240 AGTTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
QY 370 GAATATTGTCAATA 384
DB 330 ATATATAGATAACA 344

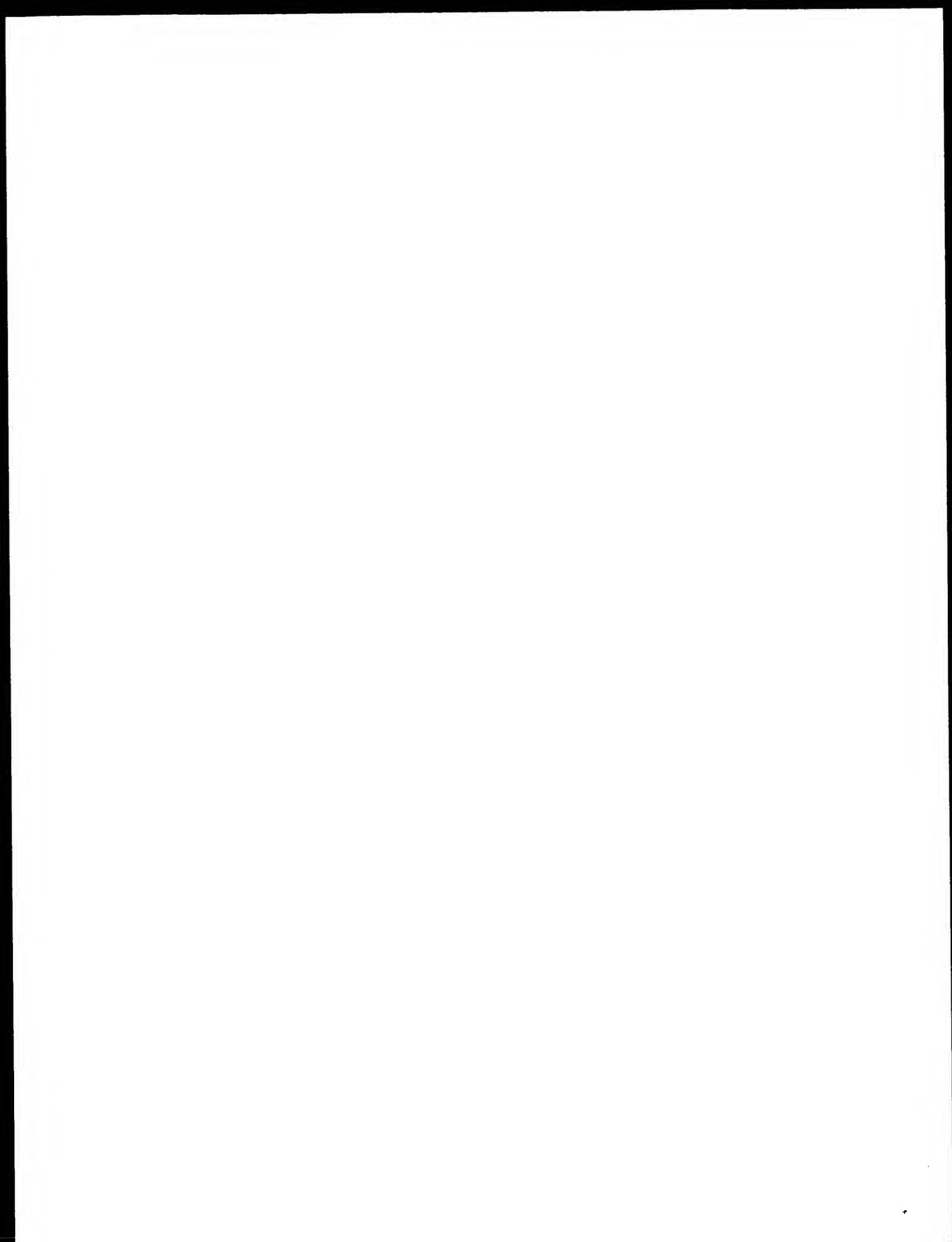
RESULT 12
US-09-878-574-3445
; Sequences 3445, Application US/09878574
; Patent No. US20020110549A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Fici, Thomas J.
; TITLE OF INVENTION: Nucleic Acid Vectors and Gene Vectors for Agrobacterium
; TITLE OF INVENTION: Plants
; PRIORITY: Application Number: 08/3115401B
; CURRENT: Application Number: 08/3115401B
; CURRENT: FILING DATE: 2001/12/21
; PRIOR APPLICATION NUMBER: 08/3115401B
; PRIOR FILING DATE: 1999/06/14
; NUMBER OF SEQ ID NOS: 15725
; SEQ ID NO 3445
; LENGTH: 386
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: LIB3028-011-01-R1-A12
US-09-878-574-3445

Query Match 10.9%, Score 60.6, DP 10, Length 386;
Best Local Similarity 42.0%, Field NO. 6.6E-09;
Matches 156; Conservative 0; Mismatches 159; Indels 0; Gaps 0;

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DB 10 TTTTATGATGATTTTATTTTGGGCGAGATGAGGAGGAGGAGGAGGAGGAGGAGGAGG 159
CY 140 AATATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 140
DB 90 ACCGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 140
QY 190 TCATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 190
DB 150 GTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 249
QY 250 AGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 300
DB 210 AGTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 249
QY 310 AGTATTCGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
DB 240 AGTTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 360
QY 370 GAATATTGTCAATA 384
DB 330 ATATATAGATAACA 344

RESULT 12
US-09-878-574-3445
; Sequences 3445, Application US/09878574
; Patent No. US20020110549A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Fici, Thomas J.
; TITLE OF INVENTION: Nucleic Acid Vectors and Gene Vectors for Agrobacterium
; TITLE OF INVENTION: Plants
; PRIORITY: Application Number: 08/3115401B
; CURRENT: Application Number: 08/3115401B
; CURRENT: FILING DATE: 2001/12/21
; PRIOR APPLICATION NUMBER: 08/3115401B
; PRIOR FILING DATE: 1999/06/14
; NUMBER OF SEQ ID NOS: 15725
; SEQ ID NO 3445
; LENGTH: 386
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: LIB3028-011-01-R1-A12
US-09-878-574-3445

```

CONTACT: Alexander Kozak (R W Michelmore)
Department of Vegetable Crops, R W Michelmore Lab
University of California at Davis (UCD)
Asmunson Hall, UCD, Davis, CA 95616, USA
Tel: 1-(530)-742-1742
Fax: 1-(530)-752-9053

FEATURES

1000

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/cultivar="L. serriola"
/db_xref="taxon/4736"

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/note="Vector: pGEX2TAS+1"

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from 10 different sources

incorporated unique 5' and 3' ends. These were

directionally oriented into

size bias. Details of each construction can be obtained

TAG_L1B=y³_E³oini lettuce
TAG_TISSUE=flowers pre-f

| TA05_SH0-30T5A0350" | 152 g | 122 g | 178 |
|---------------------|-------|-------|-----|
| ESSE COUNT | | | |

ORIGIN

| Query Match | Score |
|-----------------------|-------------|
| Eng: 100%, similarity | 25.48, 100% |
| | 17.98, 100% |

Matches 196; Conservative 0; Mismatches

46 ACCREDITED GOVT OF SOUTH CAROLINA

[illegible]

y

DD FOR CCKKXZJAZH6JHAWWJLVLHAAJCHS

[illegible][illegible][illegible]

226 101103604A(1)MAGDALENA, ALAN L 19000606

250 ACHALKE, WACHS, AND KATZ

DD FORM 10-1 AUGUST 1960

RESULT 3
UMA 6073

| | | |
|------------|-------------|---------|
| DM430075 | EM430075 | 200 bp |
| LOCUS | VVA30611 | 500 bp |
| DEFINITION | Genomic DNA | 1000 bp |

stressed leaves of *Vallis spiralis*
CDNA clone VVH030B10.5. mRNA sequence

| | |
|-----------|-------------|
| ACCESSION | RM438079 |
| VERSION | RM438079.1 |
| | GI:18459801 |

KEYWORDS EST.
SOURCE Vitis vinifera.

ORGANISM *Vitis vinifera*
Bukarvota; Viridiplantae, Streptot

Spermatophyta, Magnoliophyta, eum.
Vitaceae; Vitis.

REFERENCE 1 (bases 1 to 526)

100

Source: 1961 Census

